

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A computer-implemented method employed within a network of application server instances having a cluster architecture, comprising:  
displaying a representation of a plurality of management beans (MBeans) registered with an MBean server on a graphical user interface of a computing device, wherein each of the displayed MBeans represents a manageable resource of an application server instance within a cluster of application ~~servers~~ server instances, each application server instance having a group of server nodes configured with a redundant set of application logic and associated data, the cluster and having a dispatcher and a central service, the application ~~servers~~ server instances in communication with [[a]] the central service, the central service having a locking service and a messaging service;  
monitoring the manageable resources within the cluster, including receiving information regarding the manageable resources within the cluster from the plurality of MBeans registered with the MBean server;  
selecting one of the plurality of MBeans displayed in the graphical user interface;  
and  
accessing an attribute of the selected MBean with the graphical user interface to view the received information regarding the manageable resource represented by the selected MBean.
2. (Cancelled)

3. (Previously presented) The method of claim 1, wherein displaying the representation of the plurality of MBeans comprises:
- displaying a representation of a plurality of hierarchically organized MBeans.
4. (Original) The method of claim 3, wherein displaying the representation of the plurality of hierarchically organized MBeans comprises:
- displaying a representation of a plurality of MBeans organized as a tree structure having a root node.
5. (Currently amended) The method of claim 4, wherein the root node is an MBean representing the cluster of application ~~servers~~ server instances.
6. (Currently amended) The method of claim 5, wherein the tree structure further includes one or more server nodes depending from the root node, wherein each depending server node is an MBean representing a corresponding one of the server [[of]] nodes configured with the redundant set of application logic and associated data in the group of server nodes for an application server instance in the cluster of application servers.
7. (Currently amended) The method claim 6, wherein the tree structure further includes a kernel node depending from each of the one or more depending server nodes, wherein the kernel node is an MBean representing a kernel of the corresponding server node ~~from which it depends~~ the depending server node represents.
8. (Currently amended) The method of claim 6, wherein the tree structure further includes a library node depending from at least one of the one or more depending server

nodes, wherein the library node is an MBean representing a library of the corresponding server node ~~from which it depends~~ the depending server node represents.

9. (Currently amended) The method of claim 6, wherein the tree structure further includes a service node depending from at least one of the one or more depending server nodes, wherein the service node is an MBean representing a service of the corresponding server node ~~from which it depends~~ the depending server node represents.

10. (Original) The method of claim 1, wherein identifying one of the plurality of displayed MBeans comprises:

selecting one of the plurality of displayed MBeans with a pointing device.

11. (Original) The method of claim 1, wherein identifying one of the plurality of displayed MBeans comprises:

selecting one of the plurality of displayed MBeans with a keyboard.

12. (Original) The method of claim 1, wherein accessing the attribute of the selected MBean with the graphical user interface comprises:

accessing an attribute of an MBean representing a cluster manager of the network.

13. (Original) The method of claim 12, wherein accessing the attribute of the selected MBean representing the cluster manager comprises:

accessing a queue size attribute of the MBean to determine a number of requests waiting in a queue.

14. (Original) The method of claim 1, further comprising:

- invoking an operation of the selected MBean with the graphical user interface.
15. (Currently amended) An apparatus comprising:
- a graphical user interface; and
  - a processor and logic executable thereon to
    - display a representation of a plurality of management beans (MBeans) registered with an MBean server on the graphical user interface, wherein each of the displayed MBeans represents a manageable resource within a cluster of application ~~servers~~ server instances, each application server instance having a group of server nodes configured with a redundant set of application logic and associated data, the cluster and having a dispatcher and a central service, the application ~~servers~~ server instances in communication with [[a]] the central service, the central service having a locking service and a messaging service;
      - monitor the manageable resources within the cluster, including receiving information regarding the manageable resources within the cluster from the plurality of MBeans registered with the MBean server;
    - select one of the plurality of MBeans displayed on the graphical user interface; and
    - access an attribute of the selected MBean with the graphical user interface to view the received information regarding the manageable resource represented by the selected MBean.
16. (Cancelled)
17. (Currently amended) The apparatus of claim [[17]] 15, wherein the processor and logic executable thereon to display the representation of the plurality of MBeans

registered with the MBean server further comprises a processor and logic executable thereon to

display a representation of a plurality of MBeans organized as a tree structure having a root node.

18. (Original) The apparatus of claim 15, wherein the processor and logic executable thereon to access the attribute of the selected MBean with the graphical user interface further comprises a processor and logic executable thereon to

access an attribute of an MBean representing a cluster manager of the network.

19. (Original) The apparatus of claim 15, wherein the processor and logic executable thereon further comprises a processor and logic executable thereon to invoke an operation of the selected MBean with the graphical user interface.

20. (Currently amended) A system comprising:

a means for displaying a representation of a plurality of management beans (MBeans) registered with an MBean server wherein each of the displayed MBeans represents a manageable resource of an application server instance within a cluster of application servers server instances, each application server instance having a group of server nodes configured with a redundant set of application logic and associated data, the cluster having and a dispatcher and a central service, the application servers server instances in communication with [[a]] the central service, the central service having a locking service and a messaging service;

a means for monitoring the manageable resources within the cluster, including a means for receiving information regarding the manageable resources within the cluster from the plurality of MBeans registered with the MBean server;

a means for selecting one of the plurality of MBeans from the displayed representation of the plurality of MBeans in the graphical user interface; and

a means for accessing an attribute of the selected MBean from the displayed representation of the plurality of MBeans with the graphical user interface to view the received information regarding the manageable resource represented by the selected MBean.

21. (Cancelled)

22. (Previously presented) The system of claim 20, wherein the means for displaying the representation of the plurality of MBeans comprises:

a means for displaying a representation of a plurality of MBeans organized as a tree structure having a root node.

23. (Previously presented) The system of claim 20, wherein the means for accessing the attribute of the selected MBean comprises:

a means for accessing an attribute of an MBean representing a cluster manager of the network.

24. (Previously presented) The system of claim 23, further comprising:

a means for invoking an operation of the selected MBean.

25. (Currently amended) An article of manufacture comprising:

a computer-readable medium providing instructions that, when executed by an apparatus, cause the apparatus to

display a representation of a plurality of management beans (MBeans) registered with an MBean server on a graphical user interface of a computing device wherein each of the displayed MBeans represents a manageable resource of an application server instance within a cluster of application servers server instances, each application server instance having a group of server nodes configured with a redundant set of application logic and associated data, the cluster and having a dispatcher and a central service, the application servers server instances in communication with [[a]] central service in the cluster, the central service having a locking service and a messaging service;

monitor the manageable resources within the cluster, including receiving information regarding the manageable resources within the cluster from the plurality of MBeans registered with the MBean server;

select one of the plurality of MBeans displayed in the graphical user interface;  
and

access an attribute of the selected MBean with the graphical user interface to view the received information regarding the manageable resource represented by the selected MBean.

26. (Cancelled)

27. (Previously presented) The article of manufacture of claim 25, wherein the instructions that, when executed by the apparatus, cause the apparatus to display the representation of the plurality of MBeans registered with an MBean server on the graphical user interface further cause the apparatus to

display a representation of a plurality of hierarchically organized MBeans.

28. (Original) The article of manufacture of claim 27, wherein the instructions that, when executed by the apparatus, cause the apparatus to display the representation of the plurality of hierarchically organized MBeans further cause the apparatus to display a representation of a plurality of MBeans organized as a tree structure having a root node.
29. (Original) The article of manufacture of claim 25, wherein the instructions that, when executed by the apparatus, cause the apparatus to access the attribute of the selected MBean with the graphical user interface further cause the apparatus to access an attribute of an MBean representing a cluster manager of the network.
30. (Previously presented) The article of manufacture of claim 25, wherein the computer-readable medium providing instructions that, when executed by an apparatus, further cause the apparatus to invoke an operation of the selected MBean with the graphical user interface.